# PRKAR2B Rabbit mAb

Catalog No.: A19745 Recombinant



## **Basic Information**

Observed MW 46kDa

Calculated MW 46kDa

**Category** SMab Recombinant Monoclonal Antibody

Applications WB,IHC-P,ELISA

Cross-Reactivity Mouse,Rat

CloneNo number ARC2272

# Background

cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. The protein encoded by this gene is one of the regulatory subunits. This subunit can be phosphorylated by the activated catalytic subunit. This subunit has been shown to interact with and suppress the transcriptional activity of the cAMP responsive element binding protein 1 (CREB1) in activated T cells. Knockout studies in mice suggest that this subunit may mediate the gene induction and cataleptic behavior induced by haloperidol.

# Recommended Dilutions Imn

# **Immunogen Information**

WB	1:500 - 1:1000	Gene ID	Swiss Prot
IHC-P	1:50 - 1:200	5577	P31323

#### Immunogen

A synthetic peptide corresponding to a sequence within amino acids 319-418 of human PRKAR2B (P31323).

Synonyms

PRKAR2; RII-BETA; PRKAR2B

Contact	Produ	
€	www.abclonal.com	Source
		Rabbit

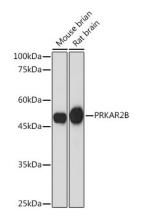
# Product Information

**Isotype** IgG **Purification** Affinity purification

### Storage

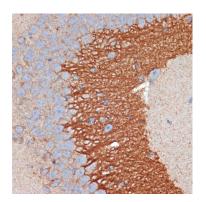
Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

# Validation Data

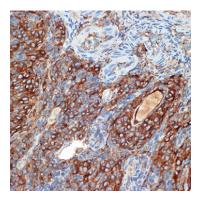


Western blot analysis of various lysates using PRKAR2B Rabbit mAb (A19745) at 1:1000 dilution.

Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.



Immunohistochemistry analysis of paraffin-embedded mouse brain using PRKAR2B Rabbit mAb (A19745) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of paraffin-embedded rat ovary using PRKAR2B Rabbit mAb (A19745) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.